## Search Databases with FASTA | Find Duplications | Hydropathy/Secondary Structure

```
# /segprg/bin/fasta34 t -q -w 80 -m 6 -z 3 -Z 10000 -f -12 -g -4 -r +5/-4 @ /tmp/FA_
FASTA searches a protein or DNA sequence data bank
version 3.4t26 July 7, 2006
Please cite:
W.R. Pearson & D.J. Lipman PNAS (1988) 85:2444-2448
Query library @ vs /tmp/FA WWW Y37ndo library searching /tmp/FA_WWW_Y37ndo library
 1>>>QUERY 1254 nt - 1254 nt
vs /tmp/FA WWW_Y37ndo library
  4426 residues in
                   1 sequences
Altschul/Gish params: n0: 1254 Lambda: 0.192 K: 0.177 H: 0.360
FASTA (3.49 \text{ May } 2006) function [optimized, +5/-4 matrix (5:-4)] ktup: 6
join: 60, opt: 45, open/ext: -12/-4, width: 16
Scan time: 0.010
                                                                opt bi
The best scores are:
                                                       (4426) [f] 4546 1
QUERY
                                                       (4426) [r]
                                                                 223 6
QUERY
>>>QUERY, 1254 nt vs /tmp/FA WWW Y37ndo library
                                                                (4426
>>QUERY
initn: 4881 init1: 3146 opt: 4546 Z-score: 6743.7 bits: 1261.8 E():
                             86.321% identity (86.321% similar) in 1272 nt ov
banded Smith-Waterman score: 4566;
Entrez Lookup Re-search database
                            General re-search
                                                     20
                                             10
                                      ATGCTCCCCTGGACGCCGCCTCGGCCTGGCCCTGAGCT
OUERY
                                      QUERY
                                                               90
                                               70
                                                       80
     20
             30
                      40
                              50
                                      60
            50
                    60
                            70
                                     80
                                             90
     GGCTGGCGCTGGCGCGGAGCGCGCAGAGCGCGGTCCACCAGCATCAGCCCCCCGAGGGGACCTGATGTTCCTGCTG
QUERY
                                                      160
                     120
                             130
                                      140
                                              150
     100
             110
                                                             190
           130
                   140
                           150
                                    160
                                            170
                                                    180
QUERY AGCTCAGCCAGCGTCTCTCACTACGAGTTCTCCCGGGTTCGGGAGTTTGTGGGGGCAGCTGGTGGCTCCACTGCCCCT
     QUERY AGCTCAGCCAGCGTCTCTCACTACGAGTTCTCCCGGGTTCGGGAGTTTGTGGGGGCAGCTGGTGGCTCCACTGCCCCT
                                      220
                                                              250
     180
             190
                     200
                             210
                                                     260
                            230
                                    240
                                            250
```

QUERY CACCGGGGCCCTGCGTGCCAGTCTGGTGCACGTGGGCAGTCGGCCATACACCGAGTTCCCCTTCGGCCAGCACAGCT

QUERY		::::::: GCCCTGCGT( 270				::::::::: ATACACCGAGT 310		GCCAGCACAGCT 330
		90	300	310	320	330	340	350
QUERY	GTGAGGCT	'GCCCAGGA'	TGCGGTGCGT · · · · · · · · · · ·			GTGACACCCAC ::::::::::	ACTGGCCTGG	GCGCTGGTCTAT
QUERY	GTGAGGCT 340	'GCCCAGGA' 350	TGCGGTGCGT 360					GCGCTGGTCTAT 410
	3	70	380	390	400	410	420	430
QUERY	AAGGAACA	GCTGTTTG	CTGAAGCATC	AGGTGCCCGG	CCAGGGGTGC	CCCAAAGTGCT	GGTGTGGGTG	SACAGATGGCGG
QUERY	AAGGAACA	::::::::::::::::::::::::::::::::::::::	::::::: CTGAAGCATC 440	AGGTGCCCGG 450	:::::::: CCAGGGGTG0 460	: : : : : : : : : : : : : : : : : : :	::::::: GGTGTGGGTG 480	GACAGATGGCGG 490
	4	F.O.	4.00	470	480	490	500	510
QUERY		50 CTGTGGGC	460 CCCCCATGC	470 AGGAGCTCAA				GCACCGGCCGAG
	:::::::	:::::::::::::::::::::::::::::::::::::::	: : : : : : : : : :		:::::::::		::::::::::	::::::::::
QUERY	CAGCGACC 500	CTGTGGGC0 510	CCCCCATGC 520	AGGAGCTCAA 530	GGACCTGGGC 540	CGTCACCGTGT 550	TCATTGTCAG 560	GCACCGGCCGAG 570
	_	30	540	550	560 .	570	580	590
QUERY	ACTTCCTG	GAGCTGTC	AGCCGCTGCC					GATGACCTGCAC
OUERY	ACTTCCTG	GAGCTGTC	: : : : : : : : : : : : : : : : : : :		:::::::: CCGAGAAGC <i>A</i>		:::::: GTGGACGTGG	GATGACCTGCAC
QUEIT	580	590	600	610	620	630	640	650
		1.0	600	620	640	650	660	670
OUERY	_	10 AGAGCTGAC	620 GGGCTCCAT	630 TCTCGCG				GATCACGTCCAG
	:::::::	:::::::		::: ::::			:::::::	
QUERY	ATTGTCCA	AGAGCTGAC	GGGCTCCAT	TCTCGACGCG	ATGCGGCCGC	CAGCAGCTCCA		SATCACGTCCAG
	660	670	600	600	700	710	720	730
	660	670	680	690	700	710	720	730
	680	690	700	710	720	730	740	750
QUERY	680	690	700	710	720	730	740	
QUERY QUERY	680 CTTCCGCC	690 TGGCCTGG(	700 CCACCCCTGC	710 TGACCGCAGA	720 CTCGGGCTAC	730 CTATGTGCTGG	740 AGCTGGTGCC	750
~	680 CTTCCGCC	690 TGGCCTGG(	700 CCACCCCTGC	710 TGACCGCAGA	720 CTCGGGCTAC	730 CTATGTGCTGG	740 AGCTGGTGCC	750 CAGCGCCCAGC
~	680 CTTCCGCC ::::::: CTTCCGCC 740	690 TGGCCTGGC ::::::: TGGCCTGGC 750	700 CCACCCCTGC ::::::::: CCACCCCTGC 760	710 TGACCGCAGA :::::::: TGACCGCAGA 770	720 CTCGGGCTAC ::::::: CTCGGGCTAC 780	730 CTATGTGCTGG ::::::::: CTATGTGCTGG 790	740 AGCTGGTGCC :::::::: AGCTGGTGCC 800	750 CCAGCGCCCAGC ::::::::::::::::::::::::::
~	680 CTTCCGCC ::::::: CTTCCGCC 740	690 TGGCCTGGC ::::::: TGGCCTGGC 750	700 CCACCCTGC :::::::: CCACCCCTGC 760	710 TGACCGCAGA :::::::: TGACCGCAGA 770	720 CTCGGGCTAC ::::::: CTCGGGCTAC 780	730 CTATGTGCTGG ::::::::: CTATGTGCTGG 790 810	740 AGCTGGTGCC :::::::: AGCTGGTGCC 800	750 CAGCGCCCAGC :::::::::::::::::::::::::::
QUERY	680 CTTCCGCC :::::::: CTTCCGCC 740  760 GGGCTGCA ::::::::	690 TGGCCTGGC ::::::: TGGCCTGGC 750  770 AGACGCCAG	700 CCACCCTGC :::::::: CCACCCTGC 760  780 GCAGCTGCCA	710 TGACCGCAGA :::::::: TGACCGCAGA 770  790 GGGAACGCCA	720 CTCGGGCTAC :::::::: CTCGGGCTAC 780  800 CGGACTGGAT	730 CTATGTGCTGG CTATGTGCTGG 790 810 CCTGGGCCGGC	740 AGCTGGTGCC ::::::::: AGCTGGTGCC 800  820 CTCGACCCGG	750 CCAGCGCCCAGC ::::::::::::::::::::::::::
QUERY	680 CTTCCGCC ::::::: CTTCCGCC 740  760 GGGCTGCA :::::::	690 TGGCCTGGC ::::::: TGGCCTGGC 750  770 AGACGCCAC :::::::	700 CCACCCTGC ::::::::: CCACCCTGC 760  780 GCAGCTGCCA	710 TGACCGCAGA ::::::::: TGACCGCAGA 770  790 GGGAACGCCA ::::::::	720 CTCGGGCTAC :::::::: CTCGGGCTAC 780  800 CGGACTGGAT :::::::	730 CTATGTGCTGG CTATGTGCTGG 790 810 CCTGGGCCGGC	740 AGCTGGTGCC ::::::::: AGCTGGTGCC 800  820 CTCGACCCGG ::::::::	750 CCAGCGCCCAGC ::::::::::::::::::::::::::
QUERY	680 CTTCCGCC :::::::: CTTCCGCC 740  760 GGGCTGCA ::::::::	690 TGGCCTGGC ::::::: TGGCCTGGC 750  770 AGACGCCAG	700 CCACCCTGC :::::::: CCACCCTGC 760  780 GCAGCTGCCA	710 TGACCGCAGA :::::::: TGACCGCAGA 770  790 GGGAACGCCA	720 CTCGGGCTAC :::::::: CTCGGGCTAC 780  800 CGGACTGGAT	730 CTATGTGCTGG CTATGTGCTGG 790 810 CCTGGGCCGGC	740 AGCTGGTGCC ::::::::: AGCTGGTGCC 800  820 CTCGACCCGG	750 CCAGCGCCCAGC ::::::::::::::::::::::::::
QUERY  QUERY  QUERY	680 CTTCCGCC :::::::: CTTCCGCC 740  760 GGGCTGCA :::::::: GGGCTGCA 820	690 TGGCCTGGC :::::::: TGGCCTGGC 750 770 AGACGCCAC :::::::: AGACGCCAC 830	700 CCACCCTGC ::::::::: CCACCCTGC 760 780 GCAGCTGCCA ::::::::: GCAGCTGCCA 840 860	710 TGACCGCAGA ::::::::: TGACCGCAGA 770 790 GGGAACGCCA ::::::::: GGGAACGCCA 850	720 CTCGGGCTAC ::::::::: CTCGGGCTAC 780  800 CGGACTGGAT :::::::: CGGACTGGAT 860	730 CTATGTGCTGG CTATGTGCTGG 790 810 CCTGGGCCGGC E:::::::::	740 AGCTGGTGCC :::::::::: AGCTGGTGCC 800  820 CTCGACCCGG ::::::::: CTCGACCCGG	750 CCAGCGCCCAGC ::::::::::::::::::::::::::
QUERY	680 CTTCCGCC :::::::: CTTCCGCC 740  760 GGGCTGCA :::::::: GGGCTGCA 820  840 GTGGCGCT	690 TGGCCTGGC :::::::: TGGCCTGGC 750 770 AGACGCCAC :::::::: AGACGCCAC 830 850 AGTGCCTGA	700 CCACCCTGC ::::::::: CCACCCTGC 760 780 GCAGCTGCCA :::::::::: GCAGCTGCCA 840 860 AGTCCAACGT	710 TGACCGCAGA ::::::::: TGACCGCAGA 770 790 GGGAACGCCA :::::::::: GGGAACGCCA 850 870 GCGCCTCCTG	720 CTCGGGCTAC ::::::::: CTCGGGCTAC 780  800 CGGACTGGAT :::::::: CGGACTGGAT 860  880 AGGCCCCAGA	730 CTATGTGCTGG TATGTGCTGG 790 810 CCTGGGCCGGC ECTGGGCCGGC 870 890 ATCCTGCGGT	740 AGCTGGTGCC ::::::::: AGCTGGTGCC 800  820 CTCGACCCGG :::::::::: CTCGACCCGG	750 CCAGCGCCCAGC ::::::::::::::::::::::::::
QUERY  QUERY  QUERY	680 CTTCCGCC :::::::: CTTCCGCC 740  760 GGGCTGCA :::::::: GGGCTGCA 820  840 GTGGCGCT :::::::	690 TGGCCTGGC ::::::::: TGGCCTGGC 750 770 AGACGCCAG ::::::::: AGACGCCAG 830 850 AGTGCCTGA	700 CCACCCTGC ::::::::: CCACCCTGC 760  780 GCAGCTGCCA ::::::::: GCAGCTGCCA 840  860 AGTCCAACGT	710 TGACCGCAGA ::::::::: TGACCGCAGA 770 790 GGGAACGCCA ::::::::: GGGAACGCCA 850 870 GCGCCTCCTG ::::::::	720 CTCGGGCTAC ::::::::: CTCGGGCTAC 780  800 CGGACTGGAT :::::::: CGGACTGGAT 860  880 AGGCCCCAGA	730 CTATGTGCTGG TATGTGCTGG 790 810 CCTGGGCCGGC 870 890 ATCCTGCGGT	740 AGCTGGTGCC :::::::::: AGCTGGTGCC 800  820 CTCGACCCGG :::::::::: CTCGACCCGG 880  900 GCGCACGCGG	750 CCAGCGCCCAGC ::::::::::::::::::::::::::
QUERY QUERY QUERY QUERY	680 CTTCCGCC :::::::: CTTCCGCC 740  760 GGGCTGCA :::::::: GGGCTGCA 820  840 GTGGCGCT :::::::	690 TGGCCTGGC ::::::::: TGGCCTGGC 750 770 AGACGCCAG ::::::::: AGACGCCAG 830 850 AGTGCCTGA	700 CCACCCTGC ::::::::: CCACCCTGC 760  780 GCAGCTGCCA ::::::::: GCAGCTGCCA 840  860 AGTCCAACGT	710 TGACCGCAGA ::::::::: TGACCGCAGA 770 790 GGGAACGCCA ::::::::: GGGAACGCCA 850 870 GCGCCTCCTG ::::::::	720 CTCGGGCTAC ::::::::: CTCGGGCTAC 780  800 CGGACTGGAT :::::::: CGGACTGGAT 860  880 AGGCCCCAGA	730 CTATGTGCTGG TATGTGCTGG 790 810 CCTGGGCCGGC 870 890 ATCCTGCGGT	740 AGCTGGTGCC :::::::::: AGCTGGTGCC 800  820 CTCGACCCGG :::::::::: CTCGACCCGG 880  900 GCGCACGCGG	750 CCAGCGCCCAGC ::::::::::::::::::::::::::
QUERY QUERY QUERY QUERY	680 CTTCCGCC ::::::: CTTCCGCC 740  760 GGGCTGCA ::::::: GGGCTGCA 820  840 GTGGCGCT ::::::: GTGGCGCT 900	690 TGGCCTGGC :::::::: TGGCCTGGC 750 770 AGACGCCAC :::::::: AGACGCCAC 830  850 AGTGCCTGA	700 CCACCCTGC ::::::::: CCACCCTGC 760 780 GCAGCTGCCA ::::::::::: GCAGCTGCCA 840 860 AGTCCAACGT	710 TGACCGCAGA ::::::::: TGACCGCAGA 770  790 GGGAACGCCA 850  870 GCGCCTCCTG ::::::::: GCGCCTCCTG 930	720 CTCGGGCTAC ::::::::: CTCGGGCTAC 780  800 CGGACTGGAT :::::::: CGGACTGGAT 860  880 AGGCCCCAGA :::::::::	730 CTATGTGCTGG 790 810 CCTGGGCCGGC 870 890 ATCCTGCGGT	740 AGCTGGTGCC ::::::::: AGCTGGTGCC 800  820 CTCGACCCGG ::::::::: CTCGACCCGG 880  900 GCGCACGCGG :::::::::	750 CCAGCGCCCAGC ::::::::::::::::::::::::::
QUERY QUERY QUERY QUERY	680 CTTCCGCC ::::::: CTTCCGCC 740  760 GGGCTGCA ::::::: GGGCTGCA 820  840 GTGGCGCT ::::::: GTGGCGCT 900	690 TGGCCTGGC :::::::: TGGCCTGGC 750  770 AGACGCCAC 830  850 AGTGCCTGA ::::::: AGTGCCTGA 910	700 CCACCCTGC ::::::::: CCACCCTGC 760  780 GCAGCTGCCA 840  860 AGTCCAACGT 920	710 TGACCGCAGA ::::::::: TGACCGCAGA 770  790 GGGAACGCCA 850  870 GCGCCTCCTG ::::::::: GCGCCTCCTG 930  0 95	720 CTCGGGCTAC ::::::::: CTCGGGCTAC 780  800 CGGACTGGAT :::::::: CGGACTGGAT 860  880 AGGCCCCAGA :::::::::	730 CTATGTGCTGG 2::::::::: CTATGTGCTGG 790  810 CCTGGGCCGGC 870  890 ATCCTGCGGGT 950  960	740 AGCTGGTGCC ::::::::: AGCTGGTGCC 800  820 CTCGACCCGG ::::::::: CTCGACCCGG 880  900 GCGCACGCGG ::::::::: GCGCACGCGG 960	750 CCAGCGCCCAGC ::::::::::::::::::::::::::
QUERY QUERY QUERY QUERY QUERY	680 CTTCCGCC ::::::: CTTCCGCC 740  760 GGGCTGCA ::::::: GGGCTGCA 820  840 GTGGCGCT ::::::: GTGGCGCT 900  920 GCCAGAGC ::::::::	690 TGGCCTGGC :::::::: TGGCCTGGC 750  770 AGACGCCAC 830  850 AGTGCCTGA ::::::: AGTGCCTGA 910  930 GCATCGTCA	700 CCACCCTGC ::::::::: CCACCCTGC 760  780 GCAGCTGCCA 840  860 AGTCCAACGT ::::::: AGTCCAACGT 920  94 ATCTCC	710 TGACCGCAGA ::::::::: TGACCGCAGA 770  790 GGGAACGCCA 850  870 GCGCCTCCTG ::::::::: GCGCCTCCTG 930  0 95 CACGCCCGGC	720 CTCGGGCTAC ::::::::: CTCGGGCTAC 780  800 CGGACTGGAT :::::::: CGGACTGGAT 860  880 AGGCCCCAGA ::::::::: AGGCCCCAGA 940  0 CGC ::::::::::::	730 CTATGTGCTGG CTATGTGCTGG 790  810 CCTGGGCCGGC 870  890 ATCCTGCGGGT 950  960 CGCAGCCTCCG	740 AGCTGGTGCC ::::::::: AGCTGGTGCC 800  820 CTCGACCCGG ::::::::: CTCGACCCGG 880  900 GCGCACGCGG :::::::::: GCGCACGCGG 960  970 CGTGAGTTGG::	750 CCAGCGCCCAGC ::::::::::::::::::::::::::
QUERY QUERY QUERY QUERY QUERY	680 CTTCCGCC ::::::: CTTCCGCC 740  760 GGGCTGCA ::::::: GGGCTGCA 820  840 GTGGCGCT ::::::: GTGGCGCT 900  920 GCCAGAGC ::::::::	690 TGGCCTGGC :::::::: TGGCCTGGC 750  770 AGACGCCAC 830  850 AGTGCCTGA ::::::: AGTGCCTGA 910  930 GCATCGTCA	700 CCACCCTGC ::::::::: CCACCCTGC 760  780 GCAGCTGCCA ::::::::: GCAGCTGCCA 840  860 AGTCCAACGT 920  94 ATCTCC :::::::::::::::::::::::::::::::	710 TGACCGCAGA ::::::::: TGACCGCAGA 770  790 GGGAACGCCA 850  870 GCGCCTCCTG ::::::::: GCGCCTCCTG 930  0 95 CACGCCCGGC	720 CTCGGGCTAC ::::::::: CTCGGGCTAC 780  800 CGGACTGGAT :::::::: CGGACTGGAT 860  880 AGGCCCCAGA ::::::::: AGGCCCCAGA 940  0 CGC ::::::::::::	730 CTATGTGCTGG CTATGTGCTGG 790  810 CCTGGGCCGGC 870  890 ATCCTGCGGGT 950  960 CGCAGCCTCCG	740 AGCTGGTGCC ::::::::: AGCTGGTGCC 800  820 CTCGACCCGG ::::::::: CTCGACCCGG 880  900 GCGCACGCGG :::::::::: GCGCACGCGG 960  970 CGTGAGTTGG::	750 CCAGCGCCCAGC ::::::::::::::::::::::::::
QUERY QUERY QUERY QUERY QUERY	680 CTTCCGCC :::::::: CTTCCGCC 740  760 GGGCTGCA ::::::: GGGCTGCA 820  840 GTGGCGCT ::::::: GTGGCGCT 900  920 GCCAGAGC ::::::: GCC-GGGG 980	690 TGGCCTGGC :::::::: TGGCCTGGC 750  770 AGACGCCAG ::::::: AGACGCCAG 830  850 AGTGCCTGA ::::::: AGTGCCTGA 910  930 GCATCGTCA :::::: GCTTCGGGGG	700 CCACCCTGC ::::::::: CCACCCTGC 760  780 GCAGCTGCCA 840  860 AGTCCAACGT 920  94 ATCTCC :::::::::::::::::::::::::::::::	710 TGACCGCAGA ::::::::: TGACCGCAGA 770 790 GGGAACGCCA 850 870 GCGCCTCCTG :::::::: GCGCCTCCTG 930 0 95 CACGCCCGGC :::::::: GGGGCTGGGC 1010	720 CTCGGGCTAC ::::::::: CTCGGGCTAC 780  800 CGGACTGGAT :::::::: CGGACTGGAT 860  880 AGGCCCCAGA ::::::::: AGGCCCCAGA 940  0 CGC :: CGGCCCCAC 1020	730 CTATGTGCTGG :::::::::: CTATGTGCTGG 790  810 CCTGGGCCGGC 870  890 ATCCTGCGGGT 950  960 CGCAGCCTCCG ::::::::: CGCAG-CTCGC	740 AGCTGGTGCC :::::::::: AGCTGGTGCC 800  820 CTCGACCCGG ::::::::: CTCGACCCGG 880  900 GCGCACGCGG :::::::::: GCGCACGCGG 960  970 CGTGAGTTGG :: CGCCCTCCCC 1040	750 CCAGCGCCCAGC ::::::::::::::::::::::::::
QUERY QUERY QUERY QUERY QUERY	680 CTTCCGCC :::::::: CTTCCGCC 740  760 GGGCTGCA :::::::: GGGCTGCA 820  840 GTGGCGCT ::::::: GTGGCGCT 900  920 GCCAGAGC ::::::: GCC-GGGG 980	690 TGGCCTGGC :::::::: TGGCCTGGC 750 770 AGACGCCAC :::::::: AGACGCCAC 830 850 AGTGCCTGA ::::::: AGTGCCTGA 910 930 GCATCGTCA :::::: GCTTCGGGC 990	700 CCACCCTGC ::::::::: CCACCCTGC 760  780 GCAGCTGCCA 840  860 AGTCCAACGT 920  94 ATCTCC ::: CCCGGAGTCG 1000	710 TGACCGCAGA ::::::::: TGACCGCAGA 770 790 GGGAACGCCA 850 870 GCGCCTCCTG :::::::: GCGCCTCCTG 930 0 95 CACGCCCGGC :::::::: GGGGCTGGGC 1010	720 CTCGGGCTAC ::::::::: CTCGGGCTAC 780  800 CGGACTGGAT :::::::: CGGACTGGAT 860  880 AGGCCCCAGA ::::::::: AGGCCCCAGA 940  0 CGC :: CGGCCCCCAC 1020	730 CTATGTGCTGG :::::::::: CTATGTGCTGG 790  810 CCTGGGCCGGC 870  890 ATCCTGCGGGT 950  960 CGCAGCCTCCG ::::::::: CGCAG-CTCGC 1030	740 AGCTGGTGCC :::::::::: AGCTGGTGCC 800  820 CTCGACCCGG :::::::::: CTCGACCCGG 880  900 GCGCACGCGG :::::::::: GCGCACGCGG 960  970 CGTGAGTTGG :: CGCCCTCCCC 1040	750 CCAGCGCCCAGC ::::::::::::::::::::::::::

QUERY	CGGGCCAGAGCG	CATCG-TCATC	rcccacg-ccc	GCCGCGCAGC	CTCCGCGTGAGT	: : : :::: TGGGCCCCAGC- 1120	
QUERY	1070 CCGCGGGCCGCA			GCGCCGGGCA	CCGCCTACCTGG		
QUERY	CCGCGGCGCTCGC				:: :: GCGGGG 1180		: : TGGAGGTG 1200
QUERY QUERY	1150 TCGGGCCGCGAGA ::::::::::: GCGGGCCGCAAC	::::::::	::::::::	: ::::::::::::::::::::::::::::::::::::	:: ::: : : ACCGCCTAC-CT	CGCGCCCACGCC	: ::: CGCCGCCT
QUERY	220 1230 GCCCCGACCCCGC :::::::: GCTCGGGCCGC-C 1290	: :: ::: ::	CCGTGAGCCGTA		CCGACGGCCCGC 1330		GCCCCGTG 1350
banded Entrez	Y mp initn: 140 Smith-Waterma Lookup Re-se 1240 TCACGGCTGGCGC CCAGCAGCTGCCA	an score: 26 earch databa 1230 GTCCCCGGGGTC	51; 54.6598 ase <u>General</u> 1220 1 CGGGGCGCGGG	s identity re-search 210 12 GCACGGGGCGTG	(54.659% sim  200 119  GGGCGCGGGCGC : : ::: : :  CGACCCGGACAC	ilar) in 558 0 11 GGGCCGTCG- :: : :: ::	nt over 80 GGCGTGCA :::: GGCGCTAG
11 QUERY- QUERY	CTTGGCGGACAG	::: ::: : GCGCCTCCTGA	:::::	: :::	:::: :: GCACGCGGCCCG	GGTAGGCGGTGC	: :: :: ·
-	1090 108 GGCCCTGCAGCGT :::::::::::::::::::::::::::::::::::	GGTGCAGTTGC	GGCCCGCGGC ::::::::::::::::::::::::::::	CACCTCCACCC	GCTGCGCCTCCC ::::::::: GCCGC-CCTCCC	CGCCCCGCAGCG	GCCCGAAC::::::
QUERY-	1010 100 ACGTGGTAGCCGA		GAGCCCA-GCC	CTGGGGCCCA : : :: ::	ACTCACGCGGAG	950 GCTGCGCGGCCG : :: :: : :	GGCGTGGG
QUERY		AGCGCATCGTCA		CGGCCGCGCAC .090 11		GTTGGGCCCCAG 0 1120	

1140 1150 1160 1170 1180 1190 1200

	850	840	830	820	81	0	300 7	90
QUERY-	GACTCAGG	CACTAGCGCCA	CGTCGTAGT	CCGTGTC-CG	GTCGAGGCC	GGCCCAGAT	CCAGTCCGT	GCGTTCC-
	: : ::	::: :: :::	:: :::	: :: : :	::::	:: ::	: ::::	:: ::::
QUERY	GCCGCA	-ACT-GCACCA	CGCTGCAGG	GCCTGGCGCC	GGCACCGCC	TACCTGGTGAC	CCGTGACCGCC	GCCTTCCG
1	210	1220	1230	1240	1250	1260	1270	1280
							300	
	780	770	760	750				'20
QUERY-	TGGCAGCT	GCTGGCGTCTT	GCAGCCCCC	GGCTGGGCGC	rGG	GCACCAGCTCC	CAGCACATAGT	'AGCCCGAG
	::: ::	: ::	: :::	: ::: :::	:	:: :: :: ::	: : ::	:::: :
QUERY	GGGCCGCG	AGAGCGCGCTG	TCCGCCAAG	GCCTGCACGC	CCGACGGCCC	GCGCCCGCGC	CCACGCCCCGT	'GCCCCGCG
	1290	1300	1310	1320	1330	1340	1350	1360
_		7.0.0		500	650		650	640
7		700	690	680	670	660	650	640
QUERY- GCGGTCAGCAGGGGTGGCCAGGCCAGGCGGAAGCCGCTGGACGTGATCTCCGTGGCATGGAGCTGCTGCGGCCGC								
QUERY -CCGACCCCGGGGACCGCCAGCCGTGAGCCGTAAGCCGGCGTCCCCGCCCAGCCGAGAGGGCCGGCGCCTACCTGAG								
	1370	1380	1390	1400	1410	1420	1430	144

1254 residues in 1 query sequences 4426 residues in 1 library sequences Tcomplib [34t26] (2 proc)

start: Thu Sep 28 10:02:00 2006 done: Thu Sep 28 10:02:00 2006 Total Scan time: 0.010 Total Display time: 0.010

Function used was FASTA [version 3.4t26 July 7, 2006]

Search Databases with FASTA | Find Duplications | Hydropathy/Secondary Structure